

# SOUTH AFRICAN JOURNAL OF SCIENCE

Volume 78

1982

## INDEX

### INDEX TO PARTS

No. 1 January .....	1 - 48
No. 2 February .....	49 - 96
No. 3 March .....	97 - 136
No. 4 April .....	137 - 176
No. 5 May .....	177 - 216
No. 6 June .....	217 - 256
No. 7 July .....	257 - 296
No. 8 August .....	297 - 340
No. 9 September .....	341 - 388
No. 10 October .....	389 - 428
No. 11/12 November/December .....	429 - 476

A

<i>Acacia mearnsii</i> as a weed, Seed germination and the potential for control of	206
Acetyl-CoA: arylamine N-acetyltransferase (EC 2.3.1.5) from rat pineal gland, Some properties of	451
Acetylene-reducing activity of <i>Azospirillum</i> in relation to grass metabolism	252
African wetlands, SCOPE collaborative project on	182
ALLEN, E.A.D., <i>et al.</i>	357
ALPER, J. and MENDELOW, B.	128
<i>Anabaena flos-aquae</i> and <i>Aphanizomenon flos-aquae</i> , Chemical and toxicological studies of the toxic freshwater cyanobacteria <i>Microcystis aeruginosa</i>	367
Antigens, Thermal denaturation and renaturation of heat resistant mycobacterial	76
Anuran distribution, rainfall and soils in Southern Africa	401
Ap stars, Rapidly oscillating	99
<i>Aphanizomenon flos-aquae</i> , Chemical and toxicological studies of the toxic freshwater cyanobacteria <i>Microcystis aeruginosa</i> , <i>Anabaena flos-aquae</i> and	367
Appetite-suppressing factor in edible mushroom fed to rats, Evidence of an	129
Archaeology, Carbon isotopes and	14
ARIATTI, M. and NEL, W.	202
Aromatic aminoacyl analogues of puromycin, Peptidyl-transferase substrate specificity in <i>E. coli</i> and rat liver ribosomes with	202
Astronomy, Pioneers of South African	473
Astronomy (South African) and the SRC	225
Astronomy, Two decades of South African: a personal view	16
ASWAGEN, C.H. VAN See VAN ASWAGEN, C.H.	183
Atmosphere monitoring	183
Avian hypothalamic gonadotrophin-releasing hormone, structure of	124
<i>Azospirillum</i> in relation to grass metabolism, Acetylene-reducing activity of	252

B

Bacteriophage adsorption in a <i>Vibrio</i> strain, Leucine uptake and	122
Barnard, Keppel H.	52
BARTEL, E.E., <i>et al.</i>	146
BATE, G.C., <i>et al.</i>	4
Bats as vectors of rabies	421
Beginning, In the very	223
BIAGIO, R.P., <i>et al.</i>	68
Biological and social change, The relationship between theories of	279
Biomedical Engineering Society of South Africa in conjunction with the South African Association of Physicists in Medicine and Biology: abstracts of papers presented at the annual congress held in Durban, March 1982	211
Biomediese Ingenieursvereniging van Suid-Afrika tesame met die Suid-Afrikaanse Vereniging van Fisici in Geneeskunde en Biologie jaarlikse kongres, Durban, Maart 1982: uittreksels van referate	211
BKV DNA in human urine, Cloning and characterization of BKV (MM) DNA and its use for detection of	112
Blood flow to the brain, New perspectives on	3
Brain, New perspectives on blood flow to the	3
Bread, Investigation of the fatty acid composition of shortenings and their influence on the polyunsaturation of liquids in	160

BROWN, A.C.	52, 224
BROWN, D.S. and ROLLINSON, D.	290
BRUGGEN, A.C. VAN See VAN BRUGGEN, A.C.	108
<i>Bulinus truncatus</i> , The southern distribution of the freshwater snail	290
BULL, J., <i>et al.</i>	36
BURGER, A.E.C., <i>et al.</i>	160
BURGER, B.V., <i>et al.</i>	146

C

Cactus weeds in South Africa, Ecology and management of	314
Caecum of the rat, Evidence of non-microbial digestion in the	73
CAITHNESS, N., <i>et al.</i>	198
Calibration of low molecular weight polypeptides by sodium dodecylsulphate polyacrylamide gel electrophoresis	36
Cancer research demands a broad approach	218
Cape Province, South Africa, Upwelling along the south coast of the	238
Cape waters, Temperature studies of	299
Carbon dioxide incubators, An automated gas cylinder change-over valve for	426
Carbon isotopes and archaeology	14
Cardiotoxins isolated from cobra venoms, The structure and actions of	350
CARMICHAEL, W.W.	367
CARTER, C.	258
Cellulases, Schütz's law and the action of	243
CENTNER, M.R., <i>et al.</i>	198
Chlorpromazine and harmine on circadian rhythms of indoleamines and phosphodiesterase activity in the rat pineal gland, Effects of	68
CILLIERS, G.D. en SLABBERT, J.P.	179
Circadian rhythms of indoleamines and phosphodiesterase activity in the rat pineal gland, Effects of chlorpromazine and harmine on	68
CLARK, R.C., <i>et al.</i>	426
Climate, Getting to grips with	8
Coals, Metal concentrations in some South African	164
Cobra venoms, The structure and actions of cardiotoxins isolated from	350
COETZEE, P.W., and JACKSON, P.B.N.	293
Cold and heat stress on factory workers in Southern Africa, Effects of moderate. 1. Introduction to a series of full-scale simulation studies	184
Cold and heat stress on factory workers in Southern Africa, Effects of moderate. 2. Skill and performance in the cold	189
Collectors in South Africa, The earliest natural history museums and	434
COLLETT, D.P.	39
Condensed matter, The Vogel-Fulcher law in the statistical thermodynamics of	157
Conduction velocity in the ulnar nerve of the fruit bat <i>Rousettus aegyptiacus</i> is not impaired by vitamin B12 deficiency	288
<i>Corynebacterium fascians</i> , The plant pathogen	107
Creationism, evolution and historical geology	264
CREWE, R.M.	440
CRONIN, M.	38
Cryptozoologists unite	299
CUMMING, D.H.M.	443
Cyanobacteria <i>Microcystis aeruginosa</i> , <i>Anabaena flos-aquae</i>	

and <i>Aphanizomenon flos-aquae</i> , Chemical and toxicological studies of the toxic freshwater .....	367
Cyanobacteria, Problems encountered in searching for new strains of toxic planktonic .....	357

## D

Darrieus-windturbine met 'n vertikale as .....	143
Darwin and the origin of species .....	272
Darwin (Charles) the man .....	268
Darwinism in 1982: the triumph and the challenges .....	275
Data handling, Neurotransmitter release studies: a versatile approach to .....	333
Dating of South African hominid sites .....	300
DAVIES, B.R. ....	182
DAVIES, O. ....	433
DENNISON, C., <i>et al.</i> .....	243
DE VILLIERS, H., and FATTI, L.P. ....	321
DE VILLIERS, O.T., <i>et al.</i> ....	335
DIJK, D.E. VAN See VAN DIJK, D.E. ....	
DOUGLAS, R.M., and HOLM, D. ....	143
DREYER, J.J., and LITSTER, I.D. ....	129
DREYER, J.J., and MAHON, E.H. ....	73
DREYER, J.J., and VAN DER WALT, W.H. ....	142
DREYER, J.J., and WEHMEYER, A.S. ....	33
DU PLESSIS, L.M., <i>et al.</i> ....	160
Dwyka Formation and Ecce Group in the Karoo Basin, Implications of a diachronous contact between the .....	249

## E

Early man in Europe .....	433
Ecce Group in the Karoo Basin, Implications of a diachronous contact between the Dwyka Formation and .....	249
Ecology and management of cactus weeds in South Africa ..	314
Ecology of the vectors of rabies, International workshop on the .....	407
Economy, Science and the .....	258
Ecosystems, Mediterranean-type-research progress and opportunities .....	5
Education and training in Southern Africa, Towards improved technical and vocational .....	21
ELSWORTH, J.F. ....	139, 299, 391
Epidemiology of viral diseases .....	407
<i>Eragrostis pallens</i> - <i>Burkea africana</i> -boomsavanne op die Nylsvley-natuurreservaat, 'n Kwantitatiewe analise van die kruidstratum van die .....	116
ERASMUS, D.J., <i>et al.</i> ....	423
Estuaries, What is <i>Spartina</i> doing in our? .....	229
Etymological aphorisms on early metal names .....	153
EVANS, D.S. ....	16
Evolution, creationism and historical geology .....	264

## F

Factory workers in Southern Africa, Effects of moderate cold and heat stress on. 1, Introduction to a series of full-scale simulation studies .....	184
Factory workers in Southern Africa, Effects of moderate cold and heat stress on. 2, Skill and performance in the cold .....	189

Factory workers in Southern Africa, Effects of moderate cold and heat stress on. 3, Skill and performance in the heat. .	306
FALCONER, I.R., and RUNNEGAR, M.T.C. ....	363
Fats, oils and waxes, New light on marine .....	303
FATTI, L.P., and DE VILLIERS, H. ....	321
Fatty acid composition of shortenings and their influence on the polyunsaturation of lipids in bread, Investigation of the .....	160
FEAST, M.W. ....	99
FINDLAY, G. ....	104
Fisiese wetenskappe, Universiteitsnavorsing in perspektief ..	393
Fisiologiese Vereniging van Suider Afrika jaarlikse kongres, Johannesburg, Oktober, 1981: uittreksels van referate. .	80
Fisiologiese Vereniging van Suider Afrika jaarlikse kongres, Bloemfontein, Oktober, 1982: uittreksels van referate. ....	460
Food scarcity, Spectre of looms .....	2
FOUCHÉ, J.J., <i>et al.</i> ....	426
Fruit bat <i>Rousettus aegyptiacus</i> is not impaired by vitamin B12 deficiency, Conduction velocity in the ulnar nerve of the .....	288
FUCHS, M., and GREEN, G.C. ....	226

## G

Galagos, Sex ratios in, revisited .....	198
GANSERA, R., <i>et al.</i> ....	346
GEBAUER, G., <i>et al.</i> ....	346
<i>Geigeria</i> , Site of respiratory inhibition by sesquiterpene lactones from .....	125
Genetic variation in the number of quills on the wings of ostriches .....	455
Geology, Creationism, evolution and historical .....	264
Germination requirements and host range of some South African mistletoes .....	41
GERRANS, G.C. ....	399
<i>Glossogobius giurus</i> (Pisces: Gobiidae) in the Limpopo river, New distributional record of .....	295
GLYN, M.C.P., <i>et al.</i> ....	36
Golden Delicious apple shoots, Translocation of sorbitol and other photosynthates in .....	335
Gomori, George .....	104
Gonadotrophin-releasing hormone, Structure of avian hypothalamic .....	124
GÖRGENS, A.H.M., and HUGHES, D.A. ....	58
GORHAM, P.R., <i>et al.</i> ....	357
Granulocyte - macrophage progenitor cells, <i>In vitro</i> sensitivity to chemotherapeutic agents .....	128
Grass metabolism, Acetylene-reducing activity of <i>Azospirillum</i> in relation to .....	252
GREEN, G.C., and FUCHS, M. ....	226
GREEN, J.S.A. ....	8
GRIERSON, D.S., <i>et al.</i> ....	4

## H

HALLIDAY, E.C. ....	183
HARLEY, E.H., <i>et al.</i> ....	112
Harmine and chlorpromazine on circadian rhythms of indoleamines and phosphodiesterase activity in the rat pineal gland, Effects of .....	68
HARPUR, D.P. ....	76
HARRISON, L. RHODES- See RHODES-HARRISON, L.	

HARVEY, A.L., and HIDER, R.C. ....	350
HASSEL, R.H. ....	418
HATTINGH, J. ....	392
Haughton, Sidney Henry, <i>obituary</i> ....	220
HAYLETT, T., <i>et al.</i> ....	426
Heat and cold stress on factory workers in Southern Africa, Effects of moderate. 1, Introduction to a series of full-scale simulation studies ....	184
Heat and cold stress on factory workers in Southern Africa, Effects of moderate. 3, Skill and performance in the heat. .	306
HECHT, T. ....	295
HEEVER, J.A. VAN DEN See VAN DEN HEEVER, J.A.	
HELGREN, D.M. ....	131
Helium stars, The evolution of ....	99
HENDRY, N.S. and VAN STADEN, J. ....	206
Hepatotoxin from the blue-green alga <i>Microcystis aeruginosa</i> , The in vivo and in vitro biological effects of the peptide ....	363
Herbicide and seaweed concentrate, Combined use of a ..	423
HEWITT, F.J. ....	225
HIDER, R.C., and HARVEY, A.L. ....	350
High-intensity magnetic separation in South Africa. ....	183
HOLM, D., and DOUGLAS, R.M. ....	143
Homicide, Prehistoric: a case of violent death on the Cape south coast, South Africa ....	167
Hominid site at Ternifine, Algeria, Uranium-series disequilibrium data for tooth fragments from the fossil. ....	205
Hominid sites, Dating of South African ....	300
Hominids and fellow travellers ....	231
HOPKINS, D., and MANCHESTER, K.L. ....	25
HOPSON, J.A., and VAN DEN HEEVER, J.A. ....	424
Host range and germination requirements of some South African mistletoes ....	41
HOWELL, P.G. ....	409
HUGHES, D.A., and GÖRGENS, A.H.M. ....	58
HUNTER, I.T., <i>et al.</i> ....	238
HUTSON, J.L. ....	453
Hydrological Research Unit ....	298
Hydroxyindole-O-methyltransferase (EC2.1.1.4) activity in rat pineal gland, Determination of ....	43
Hydroxyproline - containing lectins in plants: their structure and activity. ....	348
<i>Hyperolius</i> , Water loss, oxygen consumption and colour change in 'waterproof' reed frogs ....	30
Hypothalamic gonadotrophin-releasing hormone, Structure of avian ....	124

# I

Indoleamines and phosphodiesterase activity in the rat pineal gland, Effects of chlorpromazine and harmine on circadian rhythms of ....	68
Information retrieval systems, Personalized ....	4
International symposium on toxins and lectins, Pretoria, July 1982: collected abstracts ....	372
Iron Age in Transkei, Radiocarbon dates for the early ....	38

# J

JACKSON, P.B.N., and COETZEE, P.W. ....	293
JOHANSON, T.D., <i>et al.</i> ....	301
JOHNSON, M.R. ....	264
JONES, D.T.L. ....	149

# K

Kalahari, Edaphic context of the mongongo ( <i>Ricnodendron rautanenii</i> ) in the north-western ....	131
Karoo Basin, Implications of a diachronous contact between the Dwyka Formation and Ecra Group in the ....	249
Karoo Biome of South Africa, Synthesis of stream-flow information relating to the semi-arid ....	58
KIMBEL, W.H., <i>et al.</i> ....	301
KING, J.A., and MILLAR, R.P. ....	124
KINGWILL, D.G. ....	261
KLUGMAN, K.P. ....	3
KOK, R., <i>et al.</i> ....	184, 189, 306
KOPP, J. ....	183
Kudu in South West Africa/Namibia, Incidence of rabies in ....	418

# L

<i>Labeo umbratus</i> (Smith) (Pisces: Cyprinidae), Spawning behaviour of ....	293
LAMONT, B. ....	41
Land snail from Late Tertiary deposits at Langebaanweg, Cape Province, <i>Phortion occidentalis</i> n. sp., and extinct endodontoid ....	108
Langebaanweg, Cape Province, <i>Phortion occidentalis</i> n. sp., an extinct endodontoid land snail from Late Tertiary deposits at ....	108
Late Tertiary deposits at Langebaanweg, Cape Province, <i>Phortion occidentalis</i> n. sp., an extinct endodontoid land snail from ....	108
LAWSON, E.N. ....	107
LECATSAS, G., <i>et al.</i> ....	112
Lectin binders: a new group of plant proteins ....	346
Lectins and toxins, International symposium on ....	344
Lectins in plants, Hydroxyproline-containing: their structure and activity. ....	348
LEMMER, R. H. ....	10
Leucine uptake and bacteriophage adsorption in a <i>Vibrio</i> strain ....	122
Leucocytes in saliva ....	392
LEWIS, M.I., <i>et al.</i> ....	184, 189, 306
Limnology meeting ....	391
Limpopo river, New distributional record of <i>Glossogobius giurus</i> (Pisces: Gobiidae) in the ....	295
LINDNER, W.A., <i>et al.</i> ....	243
Lipids in bread, Investigation of the fatty acid composition of shortenings and their influence on the polyunsaturation of ....	160
LITSTER, I.D., and DREYER, J.J. ....	129
LORCH, F.B. ....	153
LOUW, D.F. ....	400
LOUW, G., <i>et al.</i> ....	30
LOUW, J.H., and SWART, D. ....	455

# M

MCCARTHY, B.W., <i>et al.</i> ....	333
MACDONALD, D.W. ....	416
McGEE, O.S., and SAVAGE, M.J. ....	106
McNICHOLAS, S., <i>et al.</i> ....	357
MAHON, E.H., and DREYER, J.J. ....	73

MAKAYA, G. ....	157
MANCHESTER, K.L. ....	219
MANCHESTER, K.L., and HOPKINS, D. ....	25
Manpower, Schools and the supply of scientific and technical	399
Marine chemistry, Aspects of ....	139
Marine waxes, fats and oils, New light on ....	303
MARTIN, D.H. ....	437
MARTINDALE, C.B., and NEWLANDS, G. ....	78
MASTERS, J.C., <i>et al.</i> ....	198
<i>Mastomys</i> references ....	225
Medical applications of the National Accelerator Centre facilities, Proposed ....	149
Mediterranean-type ecosystems - research progress and opportunities ....	5
MEESE, G.B., <i>et al.</i> ....	184, 189, 306
MENDELOW, B., and ALPER, J. ....	128
MEREDITH, C.D. ....	411
MERWE, M. VAN DER See VAN DER MERWE, M. ....	
MERWE, N.J. VAN DER. See VAN DER MERWE, N.J.	
Metal concentrations in some South African coals. ....	164
Metal names, Etymological aphorisms on early ....	153
Metallogenesis in the Precambrian ....	181
MEW, R.T., <i>et al.</i> ....	112
Microbes (New) to tackle toxic compounds ....	101
<i>Microcystis aeruginosa</i> , <i>Anabaena flos-aquae</i> and <i>Aphanizomenon flos-aquae</i> , Chemical and toxicological studies of the toxic freshwater cyanobacteria ....	367
<i>Microcystis aeruginosa</i> , The in vivo and in vitro biological effects of the peptide hepatotoxin from the blue-green alga ....	363
MILLAR, R.P., and KING, J.A. ....	124
Mines continue to set the pace ....	432
Mistletoes, Host range and germination requirements of some South African ....	41
MITCHELL, G. ....	7, 107, 141, 180
Molecular genetic studies on obligate anaerobic bacteria. ....	448
Mongongo ( <i>Ricnodendron rautanenii</i> ) in the northwestern Kalahari, Edaphic context of the ....	131
MOONEY, H.A. ....	5
Mopanie worms, On the nutritive value of ....	33
MORAN, V.C., and ZIMMERMANN, H.G. ....	314
MORRIS, A.G., and PARKINGTON, J. ....	167
MORTON, D.J. ....	451
MORTON, D.J., and POTGIETER, B. ....	43
MOTHIBELI, M.A., <i>et al.</i> ....	122
Museums and collectors in South Africa, The earliest natural history ....	434
Mushroom fed to rats, Evidence of an appetite-suppressing factor in edible ....	129
Mycobacterial antigens, Thermal denaturation and renaturation of heat resistant ....	76
<b>N</b>	
Namibia/South West Africa, Incidence of rabies in Kudu in	418
National Accelerator Centre facilities, Proposed medical applications of the. ....	149
National Research Institute for Mathematical Sciences, History, organization and research activities of ....	437
Natural history museums and collectors in South Africa, The earliest	434

NAUDE, W. DU. T., <i>et al.</i> ....	112
NEETHLING, A.C., <i>et al.</i> ....	333
Negro, The antiquity of the. ....	321
NEL, W., and ARIATTI, M. ....	202
NELSON, W.R., <i>et al.</i> ....	423
NEUBERGER, A. ....	348
Neurotransmitter release studies: a versatile approach to data handling ....	333
Neutron beam, Dcentric formation in a fast ....	179
NEWLANDS, G., and MARTINDALE, C.B. ....	78
NICOLSON, S., <i>et al.</i> ....	30
Nitrogen metabolism data, Effect of certain stress factors on the degree of 'scattering' in ....	142
NRIMS, History, organization and research activities of. ....	437
Nylsvley-natuurreservaat, 'n Kwantitatiewe analise van die kruidstratum van die <i>Eragrostis pallens</i> - <i>Burkea africana</i> -boomsavanne op die ....	116

O

Obligate anaerobic bacteria, Molecular genetic studies on. ....	448
O'DOWD, M.C. ....	279
Ogg, Professor Alexander ....	183
Oils, fats and waxes, New light on marine ....	303
OLLIVER, C.L. <i>et al.</i> ....	112
Omer-Cooper, Professor Joe ....	224
Ostriches, Genetic variation in the number of quills on the wings of ....	455

P

PARKINGTON, J., and MORRIS, A.G. ....	167
PARTRIDGE, T.C. ....	300
PATERSON, H.E.H. ....	53, 272
Peptide hepatotoxin from the blue-green alga <i>Microcystis aeruginosa</i> , The in vivo and in vitro biological effects of the ....	363
Peptidyltransferase substrate specificity in <i>E. coli</i> and rat liver ribosomes with aromatic aminoacyl analogues of puromycin ....	202
PERRINS, L. -A., <i>et al.</i> ....	238
PHILLIPS, N.C.K., <i>et al.</i> ....	243
<i>Phortion occidentalis</i> n. sp., an extinct endodontoid land snail from Late Tertiary deposits at Langebaanweg, Cape Province ....	108
Phosphodiesterase activity in the rat pineal gland, Effects of chlorpromazine and harmine on circadian rhythms of indoleamines and ....	68
Photosynthates in Golden Delicious apple shoots, Translocation of sorbitol and other ....	335
Physiological Society of Southern Africa: abstracts of papers presented at the annual congress in Johannesburg, 14-16 October 1981 ....	80
Physiological Society of Southern Africa: abstracts of papers presented at the annual congress held in Bloemfontein, October 1982 ....	460
PIERCE, S.M. ....	229
Pineal gland, Effects of chlorpromazine and harmine on circadian rhythms of indoleamines and phosphodiesterase activity in the rat ....	68
Pineal gland, Some properties of acetyl-CoA: arylamine N-acetyltransferase (EC2.3.1.5) from rat ....	451



Pitt-Rivers, Rosalind .....	140	ROBARTS, R.D. ....	391
Plant growth substances 1982 .....	302	ROBB, F.T., <i>et al.</i> .....	122
Plant proteins, Lectin binders: a new group of .....	346	ROBB, S.M., <i>et al.</i> .....	122
PLESSIS, L.M. DU. See DU PLESSIS, L.M. ....		ROLLINSON, D., and BROWN, D.S. ....	290
Polyamines: molecules in search of a role? .....	25	ROOYEN, N. VAN .See VAN ROOYEN, N. ....	
Polyenes, Research into the chemistry of at Stellenbosch .....	146	ROUSSEAU, J., <i>et al.</i> .....	333
Polypeptides by sodium dodecylsulphate polyacrylamide gel electrophoresis, Calibration of low molecular weight ..	36	<i>Rousettus aegyptiacus</i> is not impaired by vitamin B12 deficiency, Conduction velocity in the ulnar nerve of the fruit bat .....	288
POTGIETER, B., and MORTON, D.J. ....	43	ROUX, S., <i>et al.</i> .....	68
POTGIETER, D.J.J., <i>et al.</i> .....	125	RÜDIGER, H., <i>et al.</i> .....	346
Precambrian, Metallogenesis in the .....	181	RUDNER, I. ....	434
Prehistoric homicide: a case of violent death on the Cape south coast, South Africa .....	167	Ruin distributions in the stone-walled settlements of the eastern Transvaal, South Africa .....	39
PRETORIUS, H.E., <i>et al.</i> .....	160	RUNNEGAR, M.T.C., and FALCONER, I.R. ....	363
Protein phosphorylation in Athens .....	219		
PROZESKY, O.W. ....	407		
Puromycin, Peptidyltransferase substrate specificity in <i>E. coli</i> and rat liver ribosomes with aromatic aminoacyl analogues of .....	202		
		S	
		S <sub>2</sub> A <sub>3</sub> presidential address .....	261
		Saliva, Leucocytes in .....	392
		SAVAGE, M.J., and McGEE, O.S. ....	106
		SCHAUDER, H. ....	139
		SCHIMPL, A., <i>et al.</i> .....	346
		SCHNEIDER, D.F., <i>et al.</i> .....	146
		Schools and the supply of scientific and technical manpower .....	399
		SCHULZE, R.E. ....	246
		SCHUMANN, E.H., <i>et al.</i> .....	238
		SCHURZ, H., <i>et al.</i> .....	346
		Schütz's law and the action of cellulases .....	243
		Science and the economy .....	258
		SCOPE collaborative project on African wetlands .....	182
		Seaweed concentrate, Combined use of a selective herbicide and .....	423
		Seed germination and the potential for control of <i>Acacia mearnsii</i> as a weed .....	206
		SEEGERS, J.C., <i>et al.</i> .....	68
		Sesquiterpene lactones from <i>Geigeria</i> , Site of respiratory inhibition by .....	125
		Sex ratios in Galagos revisited .....	198
		Shortenings, Investigation of the fatty acid composition of, and their influence on the polyunsaturation of lipids in bread .....	160
		Siphon rain-gauge records .....	106
		SKINNER, J.D. ....	407
		SLABBERT, J.P., en CILLIERS, G.D. ....	179
		SLATER, J.H. ....	101
		Snail <i>Bulinus truncatus</i> , The southern distribution of the freshwater .....	290
		Snelneutronbundel, Disentromeervorming in 'n .....	179
		Social and biological change, The relationship between theories of .....	279
		Social Insects, International Union for the study of, ninth congress .....	440
		Sodium dodecylsulphate polyacrylamide gel electrophoresis, Calibration of low molecular weight polypeptides by ....	36
		Soils in Southern Africa, Anuran distribution, rainfall and ..	401
		Soils, Structural stability of diagnostic horizons in South African .....	453
		Sorbitol and other photosynthates in Golden Delicious apple shoots, Translocation of .....	335
Q			
Quarks at play .....	10		
QUICKE, G.V., <i>et al.</i> .....	243		
Quills on the wings of ostriches, Genetic variation in the number of .....	455		
R			
RAATH, M.A. ....	221		
Rabies in an African country, A case history of the spread of .....	443		
Rabies, International workshop on the ecology of the vectors of .....	407		
Radiocarbon dates for the early Iron Age in Transkei .....	38		
RAILTON, I. ....	302		
Rainfall and soils in Southern Africa, Anuran distribution ..	401		
Rainfall patterns in southern South America, and possible relationships with similar patterns in South Africa ....	457		
Rat, Evidence of non-microbial digestion in the caecum of ..	73		
Rat pineal gland, Determination of hydroxyindole-O-methyltransferase (EC2.1.1.4) activity in .....	43		
Rat pineal gland, Effects of chlorpromazine and harmine on circadian rhythms of indoleamines and phosphodiesterase activity in the .....	68		
Rat pineal gland, Some properties of acetyl-CoA: Arylamine N-acetyltransferase (EC2.3.1.5) from .....	451		
RAUTENBACH, W.L. ....	21		
Red seaweeds .....	391		
Reed frogs ( <i>Hyperolius</i> ), Water loss, oxygen consumption and colour change in 'waterproof' .....	30		
Research, standards for .....	390		
Respiratory inhibition by sesquiterpene lactones from <i>Geigeria</i> , Site of .....	125		
REYNEKE, L., <i>et al.</i> .....	333		
REYNHARDT, E.C. ....	393		
RHODES-HARRISON, L., <i>et al.</i> .....	112		
<i>Ricinodendron rautanenii</i> , Edaphic context of the mongongo in the northwestern Kalahari .....	131		
Rivers, Rosalind Pitt-. See Pitt-Rivers, Rosalind .....			

South African Association for the Advancement of Science presidential address .....	261
South African Association of Physicists in Medicine and Biology in conjunction with the Biomedical Engineering Society of South Africa: abstract of papers presented at the annual congress held in Durban, March 1982 .....	211
South African astronomy and the SRC .....	225
South African astronomy, Two decades of: a personal view .....	16
South African Pharmacological Society: abstracts of papers presented at the annual congress held in Johannesburg, from 14 to 16 October 1981 .....	169
South America, Rainfall patterns in southern, and possible relationships with similar patterns in South Africa .....	457
South West Africa/Namibia, Incidence of rabies in kudu in .....	418
Space research, Limits to .....	50
SPARGO, P.E. ....	473
SPARK, A.A. ....	303
<i>Spartina</i> doing in our estuaries, What is? .....	229
Spawning behaviour of <i>Labeo umbratus</i> (Smith) (Pisces: Cyprinidae) .....	293
Speciation by reinforcement, Perspective on .....	53
STADEN, J. VAN. See VAN STADEN J. ....	
STAPHORST, J.L., and STRIJDOM, B.W. ....	252
Statistical thermodynamics of condensed matter, The Vogel-Fulcher law in the .....	157
STEENKAMP, J., <i>et al.</i> ....	335
Stone-walled settlements of the eastern Transvaal. South Africa, Ruin distributions in the .....	39
Streamflow information relating to the semi-arid Karoo Biome of South Africa, Synthesis of .....	58
Stress on factory workers in Southern Africa, Effects of moderate cold and heat. 1, Introduction to a series of full-scale simulation studies .....	184
Stress on factory workers in Southern Africa, Effects of moderate cold and heat. 2, Skill and performance in the cold .....	189
Stress on factory workers in Southern Africa, Effects of moderate cold and heat. 3, Skill and performance in the heat .....	306
STRIJDOM, B.W., and STAPHORST, J.L. ....	252
Suid-Afrikaanse Farmakologiese Vereniging jaarlikse kongres, Johannesburg, Oktober 1981: uittreksels van referate .....	169
Suid Afrikaanse Vereniging van Fisici in Geneeskunde en Biologie tesame met die Biomediese Ingenieursvereniging van Suid-Afrika jaarlikse kongres, Durban, Maart 1982: uittreksels van referate .....	211
Sulphane oil: a historical note .....	139
SWART, D., and LOUW, J.H. ....	455
SZABO, B.J. ....	205

T

TALJAARD, J.J.F., <i>et al.</i> ....	333
Technical and vocational education and training in Southern Africa, Towards improved .....	21
Temperature distributions for Natal, Mapping mean monthly by trend surface analysis .....	246
Temperature studies of Cape waters .....	299
TERBLANCHE, J.H., <i>et al.</i> ....	335
Ternifne, Algeria. Uranium-series disequilibrium data for tooth fragments from the fossil hominid site at .....	205

'Therocephalian B' (Reptilia: Therapsida), The systematic position of .....	424
THERON, G.K. and VAN ROOYEN, N. ....	116
TOBIAS, P.V. ....	268
Tooth fragments from the fossil hominid site at Ternifne, Algeria, Uranium-series disequilibrium data for .....	205
TORRANCE, J.D. ....	106
Toxic compounds, New microbes to tackle .....	101
Toxic planktonic cyanobacteria, Problems encountered in searching for new strains .....	357
Toxins and lectins, International symposium on .....	344
Trees, water and men .....	226
Trend surface analysis, Mapping mean monthly temperature distributions for Natal by .....	246
TURNER, A. ....	231
TURNER, B. ....	181

U

Universiteitsnavorsing in die fisiese wetenskappe in perspektief .....	393
Upwelling along the south coast of the Cape Province, South Africa .....	238
Uranium-series disequilibrium data for tooth fragments from fossil hominid site at Ternifne, Algeria .....	205
Urine, Cloning and characterization of BKV (MM) DNA and its use for detection of BKV DNA in human .....	112

V

Valve for carbon dioxide incubators, An automated gas cylinder change-over .....	426
VAN ASWEGEN, C.H., <i>et al.</i> ....	125
VAN BRUGGEN, A.C. ....	108
VAN DEN HEEVER, J.A., and HOPSON, J.A. ....	424
VAN DER MERWE, M. ....	421
VAN DER MERWE, N.J. ....	14
VAN DER WALT, W.H., and DREYER, J.J. ....	142
VAN DER WESTHUIZEN, J. ....	288
VAN DIJK, D.E. ....	401
VAN ROOYEN, N., and THERON, G.K. ....	116
VAN STADEN, J., and HENDRY, N.S. ....	206
VAN STADEN, J., <i>et al.</i> ....	423
VAN ZYL, A. ....	140
VERMEULEN, N.M.J., <i>et al.</i> ....	125
<i>Vibrio</i> strain, Leucine uptake and bacteriophage adsorption in a .....	122
VILLIERS, H. DE. See DE VILLIERS, H. ....	
VILLIERS, O.T. DE. See DE VILLIERS, O.T. ....	
VINES, R.G. ....	457
Viral diseases, Epidemiology of .....	407
Viruses, Rabies and rabies-like .....	409
VISSER, J.N.J. ....	249
Vitamin B12 deficiency, Conduction velocity in the ulnar nerve of the fruit bat <i>Rousettus aegyptiacus</i> is not impaired by .....	288
Vogel-Fulcher law in the statistical thermodynamics of condensed matter .....	157
VRBA, E.S. ....	275

W

WALT, W.H. VAN DER. See VAN DER WALT, W.H.	
WARREN, P.R., <i>et al.</i>	4
Water loss, oxygen consumption and colour change in 'waterproof' reed frogs ( <i>Hyperolius</i> )	30
Water, trees and men	226
WATLING, H.R., and WATLING, R.J.	164
WATLING, R.J., and WATLING, H.R.	164
Waxes, fats and oils, New light on marine	303
WEBB, S.	223
WEHMEYER, A.S., and DREYER, J.J.	33
WESTHUYZEN, J. VAN DER. See VAN DER WESTHUYZEN, J.	
WHITE, T.D., <i>et al.</i>	301
Widow spiders: a complex of species	78
Wildlife rabies in the Northern Hemisphere and their relevance to Southern Africa, Studies of	416
Wildlife rabies: past and present in South Africa	411

Windturbine, Die Darrieus met 'n vertikale as	143
WITHERS, P., <i>et al.</i>	30
WOODS, D.R.	448
WOODS, D.R., <i>et al.</i>	122
WRIGHT, R., <i>et al.</i>	36
WYON, D.P., <i>et al.</i>	184, 189, 306

Y

Yellow mongoose as a rabies vector on the central plateau of South Africa	417
---	-----

Z

ZIMMERMANN, H.G., and MORAN, V.C.	314
ZUMPT, I.	417
ZYL, A. VAN. See VAN ZYL, A.	



